

Technical Bulletin

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Subject: **M-21 and M-22 Modulator Interchange**

There were two Bendix antilock modulators currently available from Bendix Commercial Vehicle Systems, the older M-21 and the newer M-22. The new M-22 can be used to replace the older M-21 with some minor mounting and wiring considerations.

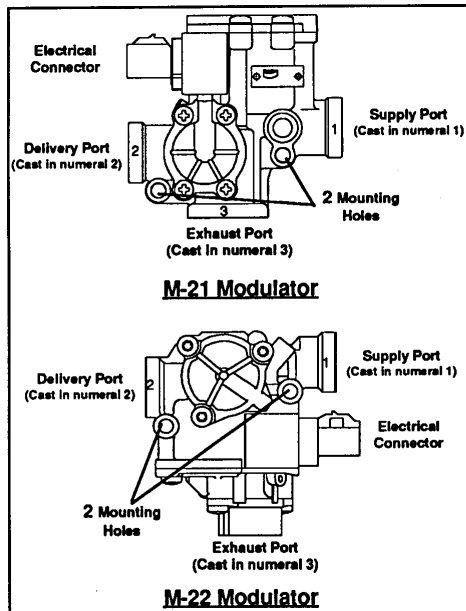


Figure 1 M-21 and M-22 Antilock Modulators

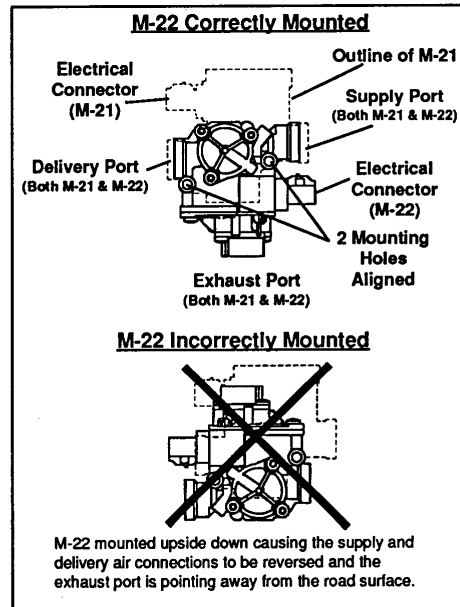


Figure 2 M-21 and M-22 Antilock Modulator Interchange

When replacing an M-21 modulator with an M-22 modulator the following must be considered during the installation process.

1. Study figures 1 & 2 and note where the exhaust port is located on both the M-21 and M-22. The exhaust on both modulators must be directed toward the road surface when mounted on the vehicle.
2. Note that the delivery port (to the brake chamber) for the M-21 is on the same side as the electrical connector. The M-22 is exactly reverse of this with the delivery port on the side opposite the electrical connector.

Note: The position of the Supply Port, Delivery Port, and Exhaust Port determine how the modulator must be mounted NOT THE ELECTRICAL CONNECTOR.

3. In all cases the electrical wire harness must be rerouted, reconnected to the M-22 and securely fastened.

IMPORTANT: The wire harness must not be **STRAINED**. A two inch radius must be maintained in the wire harness to assure it will not pull out of the connector or allow water to enter the connector. Early issues can be expected if the wire harness does not have adequate strain relief.

With these few cautions in mind the new M-22 can be used to replace the older M-21 modulator.

